

*****	<u> </u>

*****	(M.E.)

Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Sat May 13 08:46:40 2000; MasPar time 4.48 Seconds 317.408 Million cell updates/sec

Tabular output not generated.

Description: Perfect Score: Title:

Sequence: >US-09-331-631-22 (25-84) from US09331631.pep 459 1 EDDNHHHHGGHKSGQCVRRC.....ЕКRQERSRHEADDRSGEGSS 60

Scoring table: PAM 150 Gap 11

Searched: 188963 seqs, 23686106 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: a-geneseq35 1:geneseqp

Statistics: Mean 24.771; Variance 107.255; scale 0.231

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

23			. 20	19	18	17	16	15	14	13	12	11	10	9	80	7	O	υ	4	ω	2	_		Result
81	81	82	82	85	85	85	86	86	86	87	87	88	89	91	91	96	102	109	115	121	180	459	SCOLE	
17.6		17.9	17.9	18.5	18.5	18.5	18.7	18.7	18.7	19.0	19.0	19.2	19.4	19.8	19.8	20.9	22.2	23.7	25.1	26.4	39.2	100.0	Maccii I	
524	444	868	660	566	525	314	797	567	434	524	355	388	186	450	ω	590	432	666	666	625	637	593	rend cu	
→	Ľ	Н	_	_	Н	ר	1	L 3	<u>س</u> و	μ	<u>, </u>	Н	۲	<u></u>	1	Н	٢		Н	Н	\vdash	_	- 5	í
W90339	W90340	W31853	P82921	R20181	W62831	W88499	W92641	W88788	R96419	W32096	W05398	Y04998	W26536	W46606	W62836	W62832	W93954	W62829	W62828	W62830	W62837	W62835	7.0	;
max	G. max truncated SBP1	Mycobacterium tubercul	B subunit of human Fac	Sequence encoded by 67	Theobroma cacao antimi	Human stomach carcinom	Murine PGC-1 protein.	Polypeptide fragment e	Peptide fragment of N-	Miniature swine retrov	Human clone 56 protein		Trypanosoma cruzi anti	Tyrosine kinase associ	Zea mays antimicrobial	Gossypium hirsutum ant	Human regulatory molec	Macadamia integrifolia	Macadamia integrifolia	Macadamia integrifolia	Hordeum vulgare antimi	Zea mays antimicrobial	nescription	
2.51e+01	2.51e+01	2.10e+.01	2.10e+01	1.23e+01	1.23e+01	1.23e+01	1.03e+01	1.03e+01	1.03e+01	8.61e+00;	8.61e+00	7.19e+00	6.00e+00	4.18e+00	4.18e+00	1.67e+00	5.49e-01	1.47e-01	4.69e-02	1.48e-02	1.10e-07	8.76e-34	Pred. No.	

1 Y07087 Renal cancer a W37878 Human calcium 1 Y04801 Mycobacterium 1 Y04815 Mycobacterium 1 Y04815 Human cardiac W41574 Human cardiac G. max truncat 1 W90342 Human 70K U1 & W90341 G. max SBP2 pul 1 W90341 G. max SBP2 pul 1 R82630 Precis coenia 1 W72971 Precis coenia 1 R72608 Human neuronai 1 R72608 Human neuronai 1 R72613 Human neuronai 1 R72613 Human metastax 1 W31867 Human metastax 1 R37991 Sequence of alcium 1 W63141 Human calcium 1 W63141 Human 1 W63	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24
.6 1148 1 Y07087 Renal cancer asso .6 2337 1 W37878 Mycobacterium spe .4 147 1 Y04801 Mycobacterium spe .4 233 1 Y04815 Mycobacterium spe .4 288 1 W41574 Human cardiac tro .4 288 1 W72759 Recombinant human .4 409 1 W90342 G. max truncated .4 436 1 W03662 Human 70K UI SnRN .4 489 1 W90341 G. max SBP2 prote .4 1311 1 W72971 Precis coenia pat .4 1311 1 W72971 Precis coenia pat .4 1311 1 W52197 Precis coenia pat .5 237 1 R33550 Sequence of the a .6 237 1 W76427 Rat Glucocorticoi .2 605 1 R72608 Human neuronal ca .2 1382 1 W31867 Human neuronal ca .2 1382 1 W31867 Human metastasis .2 1382 1 W31867 Human metastasis .3 1 R5991 Sequence of a new .6 239 1 W63141 Human calcium cha	78	78	79	79	79	79	79	79	79	80	80	80	80	80	80	80	80	80	80	80	81	81
1 Y07087 Renal cancer asso 1 W37878 Human calcium cha 1 Y04801 Mycobacterium spe 1 Y048015 Mycobacterium spe 1 W41574 Human cardiac tro 1 W72754 Recombinant human 1 W90342 Human 70K U1 snRN 1 W90341 G. max truncated 1 W90341 G. max sBP2 protei 1 W762971 Precis coenia pat 1 W72971 Precis coenia pat 1 W72971 Precis coenia (bu 1 W52197 Precis coenia (bu 1 W33550 Sequence of the a 1 R70547 Rat Gluccorticol 1 R72608 Human neuronal ca 1 R72613 Human neuronal ca	17.0	17.0								17.4	17.4			17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.6	17.6
W37878 Human calcium cha y04801 Mycobacterium spe y04801 Mycobacterium spe W41574 Human cardiac tro W72759 Recombinant human w90342 Human 70K U1 SnRN W90341 G. max SH2 prote R82630 Precis coenia pat W52197 Precis coenia pat W52197 Precis coenia (bu w35197 Precis coenia (bu w376427 Precis coenia (bu w376427 Rat Glucocorticoi R72609 Human neuronal ca R72613 Human metastasis Y07242 Sequence of a new w31614 Human calcium cha	2339	162	1829	1382	660	612	605	467	303	2237	1311	1311	614	489	436	409	288	288	233	147	2337	1148
Renal cancer asso Human calcium cha Mycobacterium spe Mycobacterium spe Human cardiac tro Recombinant human G. max truncated Human 70% UI SNRN G. max SDP2 prote Frecis coenia (bu Precis coenia	_	<u>ب</u>	Н	_	ר	ب	_	٢	۲	-	μ,	μ	ب	ب	Н	Н	ب	۲	Н	щ	Н	_
chasso con control con control con control con control con control con	W63141	R37991	Y07242	W31867	R72613	R72609	R72608	W76427	R60054	R33550	W52197	W72971	R82630	W90341	W03662	W90342	W72759	W41574	Y04815	Y04801	W37878	Y07087
	calcium cha	new	Actin-filament binding	Human metastasis-assoc	neuronal	neuronal		Glucocorticoid	Dirofilaria immitis pa	Sequence of the alpha	Precis coenia (butterf	Precis coenia patched	70K autoantigen, part	G. max SBP2 protein.	Human 70K U1 snRNP pro	G. max truncated SBP2	Recombinant human card				calcium	cancer

ALIGNMENTS

```
RESULT
RE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                    02-JUL-1998.

22-DEC-1997; AU0874.

20-DEC-1996; AU-004275.

(RETR.) COOP RES CENT TROPICAL PL

Bower NI, Goulter KC, Green JL, M

WPI; 98-377279/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-JUL-1998.
22-DEC-1997; AU0874.
20-DEC-1996; AU-004275.
(RETR-) COOP RES CENT TROPICAL PL
Bower NI, Goulter KC, Green JL, M
WPI; 98-377279/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Page (
The sequence is be used to cont animals.
                                                                                                                                                                                                                                                                                                                                                                             W62828 stand
W62828;
27-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel anti-microbial protein from e.g. Macadamia integrifolia useful for controlling microbial infestations of plants or mam Claim 1; Page 43-45; 96pp; English.

The sequence is that of an antimicrobial protein which can
  Novel anti-microbial protein
                             N-PSDB; V42310
                                                                                                                                                                                                                          Protein
                                                                                                                                                                                                                                                                                                                                                    Macadamia integrifolia antimicrobial protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Macadamia integrifolia antimicrobia antimicrobial protein; infestation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W62830;
27-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                         W09827805-A1.
                                                                                                                                                                                                                                                                   Peptide
                                                                                                                                                                                                                                                                                                              Macadamia
                                                                                                                                                                                                                                                                                                                                    antimicrobial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      animals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          be used to control microbial infestations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-PSDB; V42316.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO9827805-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Macadamia integrifolia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               W62830 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30 DDEDDRRGGHSLQQCVQRCRQERPRYSHARCVQECRDDQQQHGRHEQEEEQGRGRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DDNHHHHGGHKSGQCVRRC-EDRPWHQRPRCLEQCREEEREK-RQERSRHEADDRS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EEYNRQRDPQQQYEQCQKRCQRRETEPRHMQICQQRCERRYEKEKRKQQKRYEEQQREDE 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EDDNHHHHGGHKSGQCVRRCEDRPWHQRP-R-CLEQC-REEEREKRQERSRHEADDRSGE 81
                                                                                                                                                                                                                                                                                                                                                                                                                     standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                              integrifolia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             age 60-62; 96pp; English.
ce is that of an antimicrobial protein which
control microbial infestations in plants and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           637 AA;
                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            26.4%;
llarity 31.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                protein; infestation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA;
                                                                                                                                                                                                                        29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29. .66
/note=
                                                                                                                                                                                                    /note-
                                                                                                                                                                                                                        /note= "signal
29. .666
                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "signal peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          39.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      . 666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
                                                                                                                                                                                                 "mature protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "mature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antimicrobial protein.
                                                                                                                                                                                                                                                                                                                                                                                                                     666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 121; DB 1;
Pred. No. 1.48e-02;
15; Mismatches 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 180; DB 1;
Pred. No. 1.10e-07;
  from
                                                                                                                                                                                                                                                                                                                                                                                                                     A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A
                                                                 Manners JM, Ma:
                                                                                                                                                                                                                                          peptide'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PLANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Manners
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
e.g.
                                                                                                                                                                                                                                                                                                                                  control.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              control.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PATHOLOGY
  Macadamia integrifolia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JM, Marcus JP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in
                                                                   Marcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                   JP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ω,.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2
```

```
RESULT 5
ID W62829 standa
AC W62829;
DT 27-OCT-1998
PPN KWW KE DT AC
                                                                                                                                                                                                                                                               Q
                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                       Ωy
                                                                                                                                                                                                                                                                                                                                                    망
                                                                                                                                                                                                                                                                                                                                                                                                                                             Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 1
          Homo sapiens.
W09915658-A2.
01-APR-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                u-uec-1996; AU-004275.
(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
Bower NI, Goulter KC, Green JL, Manners JM, Mar
WPI; 98-377279/32.
N-PSDB: VA7311
                                                                                                              Human regulatory molecule; HRM-10 protein.

Human regulatory molecule; HRM-10; cytostatic activity; immune modulator; Human regulatory molecule; HRM-10; cytostatic activity; immune modulator; transcription factor; enhancer; cell proliferation stimulation; cancer; treatment; microarray; detection; diagnosis; cell proliferation disease;
                                                   myasthenia gravis.
                                                                    allergy;
                                                                                treatment; microarray; detection; diagnosis; cell proliferation leukemia; lymphoma; myeloma; adenocarcinoma; sarcoma; bladder; brain, lung; liver; ovary; skin; teratocarcinoma; immune respon
                                                                                                                                                                         W93954 standard; Protein; 432
W93954;
30-JUN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel anti-microbial protein from e.g. Macadamia integruseful for controlling microbial infestations of plants claim 1, Page 39-41, 96pp; English.

The sequence is that of an antimicrobial protein which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-OCT-1998 (first entry)
Macadamia integrifolia antimicrobial protein
antimicrobial protein; infestation; control.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  useful for controlling microbial infestations of plants Claim 1; Page 34-36; 96pp; English.
The sequence is that of an antimicrobial protein which compared to control microbial infestations in plants and be used to control microbial infestations in plants and
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                        be used to control microbial infestations in plants and mammalian animals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9827805-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Macadamia integrifolia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          animals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Peptide
                                                                                                                                                                                                                                                                                             173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     182
                                                                                                                                                                                                                                                                                                                                                    114 EEYNRQRDPQQQYEQCQERCQRHETEPRHMQT-CQQRCERRYEKEKRKQQKRYEEQQRED 172
                                                                                                                                                                                                                                                                81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Match 25.1%; Local Similarity 35.7%; Local Similarity 35.7%; es 15; Conservative
                                                                                                                                                                                                                                                                                                                          25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25
                                                                                                                                                                                                                                                                H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EEDNKRDPQQREYEDCRRRCEQQEPRQQH-QCQLRCREQQRQ
                                                                                                                                                                                                                                                                                             E 173
                                                                                                                                                                                                                                                                                                                         EDDNHHHHGGHKSGQCVRRCE--DR-PWHQRPRCLEQC-REEEREKRQERSRHEADDRSG 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EDDNHHHHGGHKSGQCVRRCEDR-PWHQRPRCLEQCREEERE
                                                                                                                                                                                                                                                                81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                                                                                                                                 Similarity
19; Conser
                                                                    asthma; diabetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                             666 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           666 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first
                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "signal |
29. .666
/note= "mature |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
1. .28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protein;
                                                                                                                                                                                                                                                                                                                                                                                              23.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 666
                                                                    multiple
                                                                                                                                                                                                                                                                                                                                                                                 Score
Pred.
16; M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score
Pred.
14; M
                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Manners JM, Marcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 re 115; DB 1; I
d. No. 4.69e-02;
Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                 109; DB 1; Le
. No. 1.47e-01;
Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                integrifolia plants or man
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                              666;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mammalian
                                                                                                                                                                                                                                                                                                                                                                                 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                 bone;
                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2
```

U19839

```
RESULT
ID WE
AC WE
DT 27
DE ZE
KW 81
OS ZE
PN WC
PD 07
PR 27
PR 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PD PR 222 PF 232 PF 232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                               Zea mays antimicrobial prote antimicrobial protein.
Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       have cytostatic accivity and act as immune modulators, transcription factors or enhancers. The HRMs can be used to stimulate cell proliferation. Antagonists and agonists of the proteins of the invention can be used to treat cancer. The encoding nucleic acids can be used in microarrays to detect polynucleotides (and their expression levels) that encode HRMs in a biological sample. The HRMs and microarrays can be used diagnose, treat or prevent cell proliferation diseases especially cancer, e.g. leukemia, lymphoma, myeloma, adenocarcinoma, sarcoma, cancer of e.g. bladder, bone, brain, lung, liver, ovary, skin, etc, teratocarcinoma, or to treat or prevent immune responses e.g. allergies, asthma, diabetes, multiple sclarosis, Grave's disease or myasthenia gravis.
02-JUL-1998.
22-DEC-1997; AU0874.
20-DEC-1996; AU-004275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gossypium hirsutum antimicrobial protein antimicrobial protein; infestation; conti
                                                                              WO9827805-A1.
                                                                                                                                                                                                                                       T 8
W62836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-JUL-1998.
22-DEC-1997; AU0874.
20-DEC-1996; AU-004275.
20-DEC-1996; AU-004275.
(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
BOWET NI, GOULTER KC, Green JL, Manners JM, Max
NFI; 98-377279/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gossypium hirsutum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New human regulatory molecules
Claim 1; Page 69-70; 76pp; English.
Claim 1; Page 69-70; 76pp; English.
This invention describes novel human regulatory molecules (HRM) which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Au-Young J, Bandman O, Guegler KJ, Hillman JL, Lal
Shah P, Yue H;
WPI; 99-254710/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel anti-microbial protein from e.g. Macadamia useful for controlling microbial infestations of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W62832 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     animals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 49-51; 96pp; English.
The sequence is that of an antimicrobial protein which can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9827805-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-PSDB; X24068.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (INCY-) INCYTE PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-SEP-1997; US-933750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           306 RRC-SRSRDHKRSRSRERRRTRSRDRRRSRS-HDRSER 341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                                                                 ω
Q
                                                                                                                                                                                                                                                                                                                                                                                          43 DCRRRCEWDTRGQKEQQQCEESCKSQYGEKDQQQRHRPEDPQR
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity les 17; Conse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RRCEDRPW-HQRPRCLEQCREEEREKRQERSRHEADDR
                                                                                                                                                                                                                                                                                                                                           QCVRRCE-D-RPWHQRPRCLEQCREEEREK-RQERSRHEADDR
                                                                                                                                                                                                                                         standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           to control microbial infestations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       590 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                20.9%;
larity 39.5%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Protein;
                                                                                                                                                                                                                                         Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22.2%;
                                                                                                                                  protein.
infestation; control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            590
                                                                                                                                                                                                                                         ^{\omega}_{\omega}
                                                                                                                                                                                                                                                                                                                                                                                                                                                Score
Pred.
9; M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred.
9; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 102; DB 1;
Pred. No. 5.49e-01;
                                                                                                                                                                                                                                       A
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              96; DB 1; 1
No. 1.67e+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Marcus JP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 590;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 432;
                                                                                                                                                                                                                                                                                                                                                                                               85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    integrifolia plants or man
                                                                                                                                                                                                                                                                                                                                              78
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                Ψ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ω
```

δõ 밁

WHO-RPRCLEOC-REEEREKROERSRHEADDRSGE 81 WQQDRGRETQRCERESETETERERERHRERQRESE 431

397 .49

Conservative

Indels

2

Gaps

2

```
Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PA PT PT CCC CCC CCC
Query Match .
Best Local Sir
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                            Tyrosine kinase associated protein-1 - used for the diagnosis and treatment of TKA-1 related diseases

Claim 2; Fig 1; 6lpp; English.

The Tyrosine kinase associated protein-1 (TKA-1) contains a stretch of 106 amino acids (aa7-112) which is duplicated within the sequence (aa 146-252) with 65% identity, and again (aa346-176) with 47% identity. A binding agent of TKA-1, able to bind to a TKA-1 polypeptide, or the full length TKA-1 protein can both be used in a method for disrupting or promoting receptor dimerisation. They can also be used to identify agents capable of interfering with the interaction between them. The TKA-1 antibody can be used for the detection of TKA-1. The TKA-1 protein, antibody and binding agent can all be used in the diagnosis and treatment of TKA-1 related diseases an
                                                                                                                                                                                                                                                                                                          16-OCT-1996;
13-JUN-1996;
13-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tyrosine kinase associated protein 1.
tyrosine kinase associated protein-1; TKA-1; antibody; detection; binding agent; diagnosis; treatment;
                                                                                                                                                                                                                                                                               (PLAC ) MAX PLANCK GES Seedorf L, Ullrich A;
                                                        Sequence
                                                                     conditions.
                                                                                                                                                                                                                                                                                                                                                                                                            Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W46606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W46606 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure: Page 60: 96pp; English.
The sequence is that of an antimicrobial protein which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel anti-microbial protein from e.g. Macadamia useful for controlling microbial infestations of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY Bower NI, Goulter KC, Green JL, Manners JM, Ma WPI; 98-377279/32.
                                                                                                                                                                                                                                                                  WPI; 98-101049/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              receptor dimerisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               animals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             be used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     39 QCVRRCEDRPWHQRPRCLEQCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10 QCLRRHEGOPW-ETQECMRRCR
              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10;
                                                        450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            control microbial infestations in plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  33 AA;
                                                                                                                                                                                                                                                                                                            US-666067.
US-665037.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                       U16510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                        ΑĄ,
                                                                                                                                                                                                                                                                                                                                                                                          145. .229
/label= "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note-
146. .:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                346. .376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                      /label= " GLGF domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                              note= "repeated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein; 450
                                                                                                                                                                                                                                                                                                                                                                                                                       note= "Protein-protein signalling interactions"
          19.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19.8%;
                                                                                                                                                                                                                                                                                               FOERDERUNG WISSENSCHAFTEN
                                                                                                                                                                                                                                                                                                                                                                               "Protein-protein signalling interactions"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "domain repeated in 146-252 and
                                                                                                                                                                                                                                                                                                                                                                                             " GLGF domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           repeated from region 7-112"
Score 91; DB 1; L
Pred. No. 4.18e+00;
6; Mismatches 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score
Pred.
5; M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                from region 7-112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         91; DB 1; 1
No. 4.18e+00;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JM, Marcus JP;
  12;
                           Length 450;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     integrifolia
plants or mar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        346-376"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ٠.
ښ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                    and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1;
```

```
IRESULT
AC YCC
A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Diagnosing Trypanosoma cruzi infection by detecting antibodies to movel antigens - which are useful in vaccines to provide protective immunity against Chagas' disease
Insclosure; Page 70-71; 110pp; English.
Chis polypeptide sequence comprises a Trypanosoma cruzi full-length cantigen. T. cruzi antigens (see W26530-41), and epitope-containing repeat sequences (see W19094-102, W19079-86 and W26542-44) of native T. cruzi antigens, have been identified by sequencing genomic DNA and CDNA clones (see T69151-72) isolated from T. cruzi expression libraries by screening with sera from infected patients. The antigens can be expressed in transformed or transfected host cells. They can be used in a variety of immunoassays for detecting T. cruzi infection in a blood, serum, plasma, saliva, cerebrospinal fluid or urine sample. They are also useful in vaccines and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                             N-PSDB; X34249.

Mycobacterial DNA vectors containing reporter constructs identifying coding or promoter sequences involved in infection-associated protein expression

Claim 32; Fig 50B; 309pp; French.

Sequences y04/142-y05000 and y07701-y07204 represent secre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Trypanosoma cruzi antigen.
Antigen; epitope; vaccine; protective immunity; Chagas disease;
diagnosis; therapy; immunoassay.
Trypanosoma cruzi Tulahean strain C2.
w09718475-A1.
                                                   from various Mycobacterium species microorganisms. The encoding nucleotide sequences can be used as primers and probes for methods for detecting and identifying mycobacteria, especially belonging to the M. tuberculosis complex. The encoded proteins can be used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Secreted protein; Mycobacterium; pu
Mybridisation; detection; vaccine;
Mycobacterium sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mycobacterium species protein sequence 50B.

Secreted protein: Mycobacterium; primer; PCR; amplification; hvbridisation; detection; vaccine; immunisation; infection.
   the M. tuberculosis complex. vaccines for immunisation agreed 388 AA;
                                                                                                                                                                                                                                                                                                                                                         Guigueno A;
WPI; 99-181
                                                                                                                                                                                                                                                                                                                                                                                                                   Gicquel B,
                                                                                                                                                                                                                                                                                                                                                                                                                                        14-AUG-1998; F01813.
11-SEP-1997; FR-011325.
14-AUG-1997; FR-010404.
(INSP) INST PASTEUR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9909186-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Y04998 standard;
Y04998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chagas disease.
Sequence 186 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Houghton RL, Lode WPI; 97-289413/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (CORI-) CORIXA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          W26536 standard; Protein; W26536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-NOV-1996; U18624.
14-NOV-1995; US-557309.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     128 RREAEERARREVEERARQEAEELARQESEERARQEAEERA 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RR-CEDRPWHQ-RPRCLEQCREEEREKRQERSRHEADDRS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                      81045/15.
                                                                                                                                                                                                                                                                                                                                                                                                            Lim EM, Pelicic V, Portnoi D, Goguet de la Salmoniere Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Reed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 89; DB 1; I
Pred. No. 6.00e+00;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Skeiky YAW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                            secreted proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        186;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                       ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2
```

```
RESULT
ID W3
AC W3
DT 09
DE M3
KW Re
                                                                                                                                       Ş
                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                         PT unit, regardless of sequence homology

Claim 54; Fig 57; 174pp; English.

CC W05386-W05403 represent novel human and mouse Src-homology region 3 (SH3)

CC domain containing proteins that can be used in the method of the

CC structural elements of cells. The method of the invention. SH3 domain containing proteins play a role in signalling and

CC structural elements of cells. The method of the invention is for

CC identifying polypeptides containing functional domains of interest

CC (especially SH3 domains). The method comprises contacting a multivalent

CC recognition unit (RU) complex with a number of peptides and identifying

CC polypeptides having a selective binding affinity for the RU complex. The

CC method is based on functional similarities and does not rely on sequence

CC similarities. Prior methods only gave limited success for identifying

CC proteins which contain an SH3 domain due to the minimal sequence homology

CC among known SH3 proteins. It has been found that small peptide RUS in

CC multivalent form have reduced specificity for a given functional domain

CC compared to monomer RUS. Multivalent RU complexes are particularly suited

CC similar to, but not identical in sequence to, the original target

CC similar to, but not identified in sequence to, the original target

CC functional domain. The new method enables proteins having a common

CC useful for a better understanding of cell growth, malignancy, signal

CC using the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ğ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       멼
                                                                                                                                                                                                       Best Local Similarity Matches ( 17; Conser
                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (CYTO-) CYTOGEN CORP.
(UYNC-) UNIV WORTH CAI
FOWIKES DM, HOffman I
WPI: 96-465045/46.
N-PSDB: T39798.
                                                 W32096;
W32096;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-APR-1996; U04454.
03-APR-1996; US-630915.
07-APR-1995; US-417872.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Src-homology, egion 3 domain; human; mouse; SH3 domain; cell growth; cellular signalling element; cellular structural element; malignancy protein identification; functional domain; protein screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          w05398 standard; Protein; w05398; h. 19-FEB-1998 (first entry) Human clone 56 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying polypeptide(s) having
SH3 domain) - comprises detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9631625-A1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cellular signal transduction process.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-OCT-1996.
                                                                                                                                          42
                                                                                                                                                           53 RRLEEKRWAEEAQRQLEQERRE-RELREAARREQRYQEQGGEASP 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42 RRCEDRP-WHQRPR-CLEQCREEEREKRQERSRHEADDRS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        37 RRCQHRQRWRRWPRRCRWRWRMALRRRRGRRTRRTRRNRP 76
                                                                                                                                       RRCEDRPW-HQRPRCLEQCREEEREKRQERSRHEA-DDRSGEGSS
                                                                   standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        similarity
                                                                                                                                                                                                                                                                                 355 AA;
                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NORTH CAROLINA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ÷.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                   Protein; 524
                                                                                                                                                                                                                           19.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kay BK, Mcconnell SJ,
                                                                                                                                                                                                          Score
Pred.
11; N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 88; DB 1;
Pred. No. 7.19e+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10;
                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                           87; DB 1; L
No. 8.61e+00;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      specific functional domain (esp. selective binding to recognition
                                                                                                                                                                                                          14; Indels
                                                                                                                                                                                                                                           Length 355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sparks AB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                        84
                                                                                                                                                                                                          ω
••
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ?
                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                          Ψ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ν,
```

Miniature swine retrovirus GAG protein Retrovirus; porcine; GAG protein; xenot

xenotransplantation;

09-FEB-1998 (first entry)

```
RESULT RESULT DE RESULT DE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W09721836-A1.
19-JUN-1997.
13-DEC-1996; U19680.
14-DEC-1995; US-572645.
(GEHO) GEN HOSPITAL CORP.
Fishman JA;
                                                                                                                                                                                                                                                                                                                                                                                                        23-MAY-1996.
09-NOV-1995; U14776.
10-NOV-1994; US-337602.
(UNIW ) UNIV WASHINGTON.
Catterall WA, Sheng Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             organs for porcine retroviruses prior to xenotransplantation. Transplantation can increase the likelihood of retroviral activation if intact and infectious proviruses are present. The porcine retroviral sequence can be used to generate probes to determine the level (e.g. copy number) of intact (i.e. potentially replicating) porcine provirus sequences in a strain of xenograft transplantation donors. It can be used to detect mutations, genetic lesions or viral recombinants and also to detect mutations, genetic lesions or viral recombinants and also to detect mine the histological localisation of activated retrovirus. Using Polymerase Chain Reaction DNA Quantitation (PDQ) on blood mononuclear cells, infectivity titration and susceptibility testing can be performed. Ultimately animal donors without intact porcine retroviral sequences or a lower copy number of viral elements could be selected. Sequence 524 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           provirus;
Porcine re
screening for presynaptic calcium channel blockers - identifies compounds which inhibit docking of presynaptic vesicles to calcium channels, rather than compounds which inhibit calcium influx claim 7; Figure 11A; 53pp; English.

A method of screening for compounds that inhibit the interaction between presynaptic calcium channels and presynaptic vesicles comprises contacting calcium channels and presynaptic vesicles compound under conditions sufficient to pertide with a candidat compound under conditions sufficient to pertide is able to bind syntaxin or synaptosome associated protein, and then detecting the presence or absence of binding between the peptide and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-NOV-1996 (first entry)
Peptide fragment of N-type calcium channel.
Calcium channel; synapse; synaptic vesicle; presynaptic; syntaxin;
synaptosome; neuronal cell death; ishaemia; stroke; epilepsy;
cognitive deficit; inhibition; screening; detection; treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               T 14
R96419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; T74884.

New nucleic acid from porcine retro:viruses - used for detect viruses in transplant or other tissue and for assessing risk transmitting infection to graft recipient Claim 22; Fig 3; 128pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This is a porcine retrovirus from miniature swine containing the coding region for a putative viral GAG protein. This sequence and PCR fragment: generated from the sequence (see T74812-T74882) could be used to screen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R96419;
                                                                                                                                                                                                                                                                                                                                                                                   WPI; 96-259782/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       W09615149-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EEEREQRKEREREEREER 440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EEEREKRQERSRHEADDR 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97-332804/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; peptide; 434 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
11; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  retrovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           organ transplant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19.0%;
larity 61.1%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /label= GAG_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers 718. .1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Claimed peptide region."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 87;
Pred. No.
2; Misma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              donor; activated virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      re 87; DB 1; Le
d. No. 8.61e+00;
Mismatches 5;
       otein, and then detecting the peptide and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ű
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 524;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  containing th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for detecting 
ssing risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR.
                                                                                                            a candidate between the
                                                                                                                                                                                                                                                                                                                    calcium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the coding
CR fragments
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         88888888888888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
```

δÃ 밁

```
HESOLATION AND ACTION ACTION AND ACTION AND ACTION AND ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local s
Matches 1
S Homo sapiens.

1 WO9854963-A2.

10-DEC-1998; U11422.

10-DEC-1997; US-048891.

06-JUN-1997; US-048891.

06-JUN-1997; US-048893.

06-JUN-1997; US-048894.

06-JUN-1997; US-048896.

06-JUN-1997; US-048896.

06-JUN-1997; US-048896.

06-JUN-1997; US-048999.

06-JUN-1997; US-048999.

06-JUN-1997; US-04899.

06-JUN-1997; US-04899.

06-JUN-1997; US-04899.

06-JUN-1997; US-04899.

08-JUN-1997; US-04899.

08-JUN-1997; US-049020.

09-1997; US-057644.

18P-1997; US-057644.

18P-1997; US-057661.

1997; US-057764.

1997; US-057761.

1997; US-057778.

1997; US-04889.

1997; US-04889.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                compound bound to the peptide. The method allows for the screening of compounds which inhibit the docking of presynaptic vestcles to calcium channels and which therefore prevent neurotransmitter release by binding to a selected presynaptic calcium channel-like peptide. Isolated compounds may be used in the prevention of neuronal cell death that accompanies cerebral ischaemia. They may also be used in the treatment of stroke, cognitive deficit related to cardiac surgery and neuronal damage caused during acute epileptic episodes. This sequence corresponds to the LII-III loop (amino acids 710-1143 of the rat N-type calcium channel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LT 15
W88788
W88788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Polypeptide fragment encoded by gene 36. Human; secreted protein; fusion protein; gene therapy; protein therapy diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaen developmental abnormality; foetal deficiency; blood; allergy; renal; immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma; inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus; osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion; endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     candidate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     200 RCERSRRHHRRGSPEE--ATEREPRRHRAHRHAQDSSKEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           43 RCEDRPWHQRPRCLEQCREEEREKRQERSRHEADDRSGEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     compound,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     thereby determining whether the candidate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score
Pred.
8; M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ↦
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; I
1.03e+01;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 434;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ۳
```

```
PT New isolated human genes and the secreted polypeptides they encode -
pT useful for diagnosis and treatment of e.g. cancers, neurological
pT disorders, immune diseases, inflammation or blood disorders
pS Disclosure; Page 30, 772pp; English.

CC The invention relates to nucleic acid sequences (V84411 to V84633)
CC encoding human secreted proteins (W88334 to W88756). The secreted protein
CC gene sequences are deposited with the ATCC under deposit numbers ATCC
CC 27979, 97974, 97975, 97976, 97977, 209007, 209008, 209009, 209010,
CC 209011, 209080, 209081, 209082, 209083, 209084, 209085, 209511. Host
CC 21st comprising recombinant vectors containing the nucleic acid
CC sequences are used for the recombinant production of the secreted
CC useful for preventing, treating or ameliorating medical conditions e.g.
CC by protein or gene therapy. Pathological conditions can be also diagnosed.
CC by determining the amount of the new polypeptides in a sample or by
CC determining the presence of mutations in the new polynucleotides.
CC Specific uses are described for each of the polynucleotides, based on
CC which tissues they are most highly expressed in, and include developing.
CC disorders, developmental abnormalities and foetal deficiencies, blood
CC disorders, hepatic and renal disease, lymphomas, inflammation, altergies,
CC ischamic shock althoims's and committee disorders, schizonbrenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-JUN 1997
05-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

05-SEP-1997

06-JUN-1997

06-JUN-1997

06-JUN-1997

06-JUN-1997

06-JUN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-JUN-1997;
06-JUN-1997;
06-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                         (HUMA-) HUMAN GENOME SCI INC.

Brewer LA, Carter KC, Dillon PJ, Ebner R, Endress G Fan P, Feng P, Ferrie AM, Fischer CL, Florence C, Florence K, Greene JM, Hu J, Ksyaw H, Lafleur DW, Li Y, Moore PA, Ni J, Olsen HS, Rosen CA, Ruben SM, Shi Y, Soppet DR, Wei Y, Young P, Yu G, Zeng Z; WPJC, 99-053865/05.
   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-JUN-
                    such
                                 restenosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB; V84446.
                                               ischemic shock, Alzheimer's and cognitive disorders, schizophrenia,
thymus,
                as osteoporosis,
 digestive/endocrine disorders, infections and AIDS. The
                prostate diseases, obesity, disorders involving osteoclasts eoporosis, arthritis or malignancies, diseases of testes, lu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-057769.
US-057774.
US-057777.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-048970.
US-048974.
US-049373.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-057763.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Endress GA,
cence C,
             testes,
               lung
```

```
3233
3333
3333
3333
3333
polypeptides are also useful for i
The present sequence represents a
gene of the invention (see descrip
Sequence 567 AA;
                      useful for identifying their binding partners represents a polypeptide fragment encoded by a (see descriptor line for gene number).
```

```
Query Match
Best Local S
Matches 1
 Local Similarity nes 14; Conser
 Conservative
        18.7%;
 10;
        Score
Pred.
 Mismatches
        No ;
        DB 1; I
1.03e+01;
              Length 567;
 Indels
 2;
Gaps
 2;
```

497 ERNRQLEREKRREHSRERDRERERERERDRGDRDRDRE 534 :| :: :| : |: || :| : ... | DRPWH-ORPRCLEQCREEEREKRQERGRHEAD-DRSGE !;

81

2000

Š В

46

Search completed: Sat May 13 08:46:48 Job time: 8 secs.